FILE 'USPAT' ENTERED AT 16:23:24 ON 08 SEP 1999

U.S. PATENT TEXT FILE

THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT

THROUGH September 07, 1999.

=> s timestamp?

L1 908 TIMESTAMP?

=> s l1 and status

87601 STATUS

L2 519 L1 AND STATUS

=> s 12 and data structure#

523259 DATA

1093867 STRUCTURE#

13198 DATA STRUCTURE#

(DATA(W)STRUCTURE#)

L3 275 L2 AND DATA STRUCTURE#

=> s 13 and lock?

407134 LOCK?

L4 118 L3 AND LOCK?

=> s 14 and database management

20102 DATABASE

48306 MANAGEMENT

1912 DATABASE MANAGEMENT

(DATABASE (W) MANAGEMENT)

L5 22 L4 AND DATABASE MANAGEMENT

=> d 1-

- 1. 5,913,164, Jun. 15, 1999, Conversion system used in billing system for mobile satellite system; Robert L. Pawa, et al., 455/427, 12.1, 406, 411 [IMAGE AVAILABLE]
- 2. 5,884,328, Mar. 16, 1999, System and method for sychronizing a large database and its replica; Malcolm Mosher, Jr., 707/202 [IMAGE AVAILABLE]
- 3. 5,862,325, Jan. 19, 1999, Computer-based communication system and method using metadata defining a control structure; Drummond Shattuck Reed, et al., 709/201; 395/200.42, 200.58, 200.72, 200.74; 707/10, 203, 204; 709/212, 228, 242, 244 [IMAGE AVAILABLE]
- 4. 5,835,762, Nov. 10, 1998, Method and apparatus for processing electronic mail in parallel; Steven S. Gans, et al., 709/100 [IMAGE AVAILABLE]

- 5. 5,832,508, Nov. 3, 13 Method for deallocating a logical database systems; Andrew P. Sherman, et al., 707/200 [IMAGE AVAILABLE]
- 6. 5,832,484, Nov. 3, 1998, Database system with methods for parallel lock management; Mohan Sankaran, et al., 707/8, 9; 709/103, 107 [IMAGE AVAILABLE]
- 7. 5,802,499, Sep. 1, 1998, Method and system for providing credit support to parties associated with derivative and other financial transactions; Gerald P. Sampson, et al., 705/35 [IMAGE AVAILABLE]
- 8. 5,758,072, May 26, 1998, Interactive computer network and method of operation; Robert Filepp, et al., 709/220, 217 [IMAGE AVAILABLE]
- 9. 5,745,753, Apr. 28, 1998, Remote duplicate database facility with database replication support for online DDL operations; Malcolm Mosher, Jr., 707/202, 204 [IMAGE AVAILABLE]
- 10. 5,706,516, Jan. 6, 1998, System for communicating messages among agent processes; David Yu Chang, et al., 709/300; 707/1; 709/202, 217 [IMAGE AVAILABLE]
- 11. 5,608,720, Mar. 4, 1997, Control system and operations system interface for a network element in an access system; Charles H. Biegel, et al., 370/249, 465 [IMAGE AVAILABLE]
- 12. 5,555,404, Sep. 10, 1996, Continuously available database server having multiple groups of nodes with minimum intersecting sets of database fragment replicas; .O slashed.ystein Torbj.o slashed.rnsen, et al., 707/202; 364/931.43, 931.45, 944.3, 944.61, 945.3, 963.3, 974.7, 975.5, DIG.2; 714/10 [IMAGE AVAILABLE]
- 13. 5,504,897, Apr. 2, 1996, Method and apparatus for processing electronic mail in parallel; Stevens Gans, et al., 707/104; 364/281.3, 284.3, DIG.1; 709/102 [IMAGE AVAILABLE]
- 14. 5,423,037, Jun. 6, 1995, Continuously available database server having multiple groups of nodes, each group maintaining a database copy with fragments stored on multiple nodes; Svein-Olaf Hvasshovd, 707/202; 364/931.43, 931.45, 944.3, 944.61, 945.3, 963.3, 970.5, 974.7, DIG.2; 707/205; 714/10 [IMAGE AVAILABLE]
- 15. 5,347,632, Sep. 13, 1994, Reception system for an interactive computer network and method of operation; Robert Filepp, et al., 709/202; 364/228.4, 246.3, 284.4, DIG.1 [IMAGE AVAILABLE]
- 16. 5,335,343, Aug. 2, 1994, Distributed transaction processing using two-phase commit protocol with presumed-commit without log force; Butler Lampson, et al., 714/19; 364/281.9, 282.1, 282.2, DIG.1; 707/202 [IMAGE AVAILABLE]
- 17. 5,333,303, Jul. 26, 1994, Method for providing data availability in a transaction-oriented system during restart after a failure; Chandrasekaran Mohan, 714/20; 364/285.2, DIG.1 [IMAGE AVAILABLE]
- 18. 5,280,612, Jan. 18, 1994, Multiple version database concurrency control system; Raymond A. Lorie, et al., 707/8; 364/222.81, 222.82, 246.6, 246.8, 259, 259.2, 261, 262.4, 262.9, 264, 281.1, 281.3, 281.4, 281.5, 282.1, 282.4, DIG.1; 707/9, 203, 206; 710/242 [IMAGE AVAILABLE]
- 19. 5,280,611, Jan. 18, 1994, Method for managing database recovery from failure of a shared store in a system including a plurality of transaction-based systems of the write-ahead logging type; Chandrasekaran Mohan, et al., 707/8; 364/228.1, 236.2, 236.4, 239, 240.8, 243, 243.4,

243.41, 246.6, 246.8, 248.1, 248.2, 249, 254, 254.3, 261, 262.4, 262.9, 267.1, 271, 271.5, 281.4, 282.1, 285, 285.2, 285.4, DIG.1 07/202; 710/242; 714/20 [IMAGE AVAILABLE]

- 20. 5,278,982, Jan. 11, 1994, Log archive filtering method for transaction-consistent forward recovery from catastrophic media failures; Dean S. Daniels, et al., 707/202; 364/282.1, 285.2, DIG.1, DIG.2; 714/19 [IMAGE AVAILABLE]
- 21. 5,261,089, Nov. 9, 1993, Optimization of commit procedures by utilizing a two-phase commit procedure only when necessary; Andrew Coleman, et al., 707/8; 364/281.3, 282.1, DIG.1; 709/302; 710/240; 714/16 [IMAGE AVAILABLE]
- 22. 5,247,672, Sep. 21, 1993, Transaction processing system and method with reduced **locking**; Chandrasekaran Mohan, 711/152; 364/222.82, 246.8, 281.4, DIG.1; 707/8; 709/101 [IMAGE AVAILABLE]
- => s online or on-line

3090 ONLINE 1304503 ON-LINE (LINE)

L6 1305018 ONLINE OR ON-LINE

=> s 16 and bookmark?

435 BOOKMARK? 297 L6 AND BOOKMARK?

=> s 17 and database management

20102 DATABASE
48306 MANAGEMENT
1912 DATABASE MANAGEMENT
(DATABASE (W) MANAGEMENT)
16 L7 AND DATABASE MANAGEMENT

=> d 1-

L7

L8

- 1. 5,950,173, Sep. 7, 1999, System and method for delivering consumer product related information to consumers within retail environments using internet-based information servers and sales agents; Thomas J. Perkowski, 705/26; 235/375; 379/93.12; 705/27 [IMAGE AVAILABLE]
- 2. 5,926,789, Jul. 20, 1999, Audio-based wide area information system; Daniel Barbara, et al., 704/275, 272 [IMAGE AVAILABLE]
- 3. 5,918,224, Jun. 29, 1999, Client/server database system with methods for providing clients with server-based bi-directional scrolling at the server; David Bredenberg, 707/2, 1, 8, 10, 103, 200 [IMAGE AVAILABLE]
- 4. 5,905,979, May 18, 1999, Abstract manager system and method for managing an abstract database; Sue Ellen Barrows, 707/1, 100, 500, 501, 513 [IMAGE AVAILABLE]
- 5. 5,905,248, May 18, 1999, System and method for carrying out information-related transactions using web documents embodying transaction enabling applets automatically launched and executed in response to reading URL-encoded symbols pointing thereto; Garrett Russell, et al., 235/462.15, 472.01 [IMAGE AVAILABLE]
- 6. 5,893,076, Apr. 6, 1999, Supplier driven commerce transaction processing system and methodology; Edward A. Hafner, et al., 705/28, 29

- 7. 5,884,035, Mar. 16, 1999, Dynamic distributed group registry apparatus and method for collaboration and selective sharing of information; Ronald A. Butman, et al., 709/218; 345/331; 707/10; 709/205 [IMAGE AVAILABLE]
- 8. 5,877,766, Mar. 2, 1999, Multi-node user interface component and method thereof for use in accessing a plurality of linked records; Cary Lee Bates, et al., 345/357, 356, 973 [IMAGE AVAILABLE]
- 9. 5,873,109, Feb. 16, 1999, Device and method for displaying text of an electronic document on a screen in real time; Clifford R. High, 707/517, 507 [IMAGE AVAILABLE]
- 10. 5,870,562, Feb. 9, 1999, Universal domain routing and publication control system; Ronald A. Butman, et al., 709/238, 217, 229 [IMAGE AVAILABLE]
- 11. 5,867,667, Feb. 2, 1999, Publication network control system using domain and client side communications resource locator lists for managing information communications between the domain server and publication servers; Ronald A. Butman, et al., 709/249, 225, 227 [IMAGE AVAILABLE]
- 12. 5,867,665, Feb. 2, 1999, Domain communications server; Ronald A. Butman, et al., 709/239, 217, 223 [IMAGE AVAILABLE]
- 13. 5,862,325, Jan. 19, 1999, Computer-based communication system and method using metadata defining a control structure; Drummond Shattuck Reed, et al., 709/201; 395/200.42, 200.58, 200.72, 200.74; 707/10, 203, 204; 709/212, 228, 242, 244 [IMAGE AVAILABLE]
- 14. 5,826,253, Oct. 20, 1998, Database system with methodology for notifying clients of any additions, deletions, or modifications occurring at the database server which affect validity of a range of data records cached in local memory buffers of clients; David Bredenberg, 707/2, 1, 7, 8, 10, 100; 711/100, 103 [IMAGE AVAILABLE]
- 15. 5,778,381, Jul. 7, 1998, Computer aided maintenance and repair information system for equipment subject to regulatory compliance; Michael A. Sandifer, 707/104; 701/29, 30; 707/103 [IMAGE AVAILABLE]
- 16. 5,553,281, Sep. 3, 1996, Method for computer-assisted media processing; Alan Brown, et al., 707/104; 345/331, 433; 707/512, 526 [IMAGE AVAILABLE]
- => s status (2w) storage

87601 STATUS 442434 STORAGE

L9 594 STATUS (2W) STORAGE

=> s 19 and 707/8/cclst

290 707/8/CCLST

L10 3 L9 AND 707/8/CCLST

=> d 1-

1. 5,721,904, Feb. 24, 1998, Database access system and method of controlling access management to a database access system for a plurality of heterogeneous database servers using SQL; Hiromichi Ito, et al., 707/8; 704/9; 707/4, 101, 102 [IMAGE AVAILABLE]

- 2. 5,675,781, Oct. 7, 1967, Augmenting volume management of information storage devices to handle irect access to storage device William L. Duncan, et al., 707/8: 709/300; 711/152 [IMAGE AVAILABLE]
- 3. 5,651,101, Jul. 22, 1997, Knowledge base system for setting attribute value derivation data independently from attribute value derivation procedure and shared data management apparatus for selectively locking attribute; Kazuyuki Gotoh, et al., 706/53; 707/8, 103 [IMAGE AVAILABLE]

=> d his

	(FILE 'USPA	TF	ENTERED AT 16:23:24 ON 08 SEP 1999)
L1	908	S	TIMESTAMP?
L2	519	S	L1 AND STATUS
L3	275	S	L2 AND DATA STRUCTURE#
L4	118	S	L3 AND LOCK?
L5	22	S	L4 AND DATABASE MANAGEMENT
L6	1305018	S	ONLINE OR ON-LINE
L7	297	S	L6 AND BOOKMARK?
L8	16	S	L7 AND DATABASE MANAGEMENT
L9	594	S	STATUS (2W) STORAGE